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SEQUENCE LISTING

<110> AGT Biosciences Ltd. (outside of US)
Collier, Greg R (US only)
Walder, Ken R (US only)
Segal, D. H (US only)

<120> DIFFERENTIAL EXPRESSION OF NUCLEIC ACID MOLECULES

<130> 12467550/EJH

<150> US 60/485,790

<151> 2003-07-08

<160> 51

<170> PatentIn version 3.1

<210> 1

<211> 449

<212> DNA

<213> Psammomys Obesus

<220>

<221> misc_feature

<222> (1)..(425)

<223> "n" is unknown nucleotide

<400> 1
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tcaaaggcag tcacgtttac actgcagtta gaactccttag ggcacgttgc ttttcatcag 120
gcttccccctg cttttgattt gtggctgttg ctgatttttc gtatgtggac atacacctac 180
ctcttctggtt ggaaagaaca tttaaaatga aacaaatttt acttaaaaaa aaatcaagga 240

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gtcctttaat gtaaatttta actttcaaat tactttcttt atcttacttt attacaaata      300
gcacccacta gcattttctgt gatgtaccca cctctttcna tgtgctattt gactgatgct      360
tgctccctgg gatgacgttg caaaaaatcg actagtagaa atgaagtgna aatgcatttt      420
ggtgnatacc ttgactcctt ggtgctaata                                     449

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<210> 2

<211> 1702

<212> DNA

<213> Psammomys Obesus

<220>

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<222> (1)..(1518)

<223> "n" is unknown nucleotide

<400> 2

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cccacgcgtc cggatgaaga ttagtctgcc ttggcattta taaatgattc acaaccagtt      60
tccagttgga ccccaaaaaa ctatttaatt atcaatgaga taatatgttt cctttctgaa     120
taatacataa aagaaatcag aggctgggaa aaaaagttat ggataagaag ttccagtcca     180
ataaaattat atttatctgt aggagtcatt ttctctagat ttctgtttct aacatcctgg     240
aaaaaaaatt gagtttctgg taaatagtcc agaaattatt tagctaattt aattttcttta     300
catttgaaga ctttagattt attttcagta tttagttaat ataaaattaa aggaaaatca     360
acttaaaact agatcaacat ttaatatataa tttatttttt tgtgtacata ataaatttat     420
ccagaagtta aatgcatgga aacatgatth tataaaacaa aactaaccat gcttcccctc     480
cattgccata tctgctcttg taggatgcta ttttctgtat gttaaaatcg ggtgaatgag     540
atagcatttg tggaatgagg gtgtgcagtg ctttatgtac aggtagttag agtaagggtgc     600
cttgttcttc actcgaatat atgaacatgc cagttaaacc tctttaaatt tttttctttt     660
actattcacc tccttaactg aatcacacca gcttgcttag aatctcatgg aagcaatgct     720
caggcaattt cacttttttg ttgntgntat tgncttcttt tgaaaagcta atcatggcac     780
atgtaaggga cnggcgcgtt cactgcccag gccattgcat ggaatcactg cagtcttgct     840

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ctgcacatgg gatctacact ggctatctat agtaactagt gtaattgaag gcagacaagc      900
ttgacgcaga taagcttttg gcagctgaat aatctacagg gttagttttg aggatcaa      960
actggctgat aattatgata ttgccacatg gtttgagtct atgtaagctt gaataagtgc    1020
atcttgtagc atctatggga agtgtggggg gaattaaagt gttagtgaag agaatatcta    1080
ccaagtggct ttttgtaaga taggaaacaa tagagtccaa agggaacttt taagagattg    1140
aaaaggggga ataatatctc agcataaaat cctaaatttg aataaaagaa agaagaggag    1200
attgngctg ttgctggtgt gtgcagatct tctgggttct tccttttaaat gttccactgt    1260
ttttcctgtc agtattgtag atgtgtgatg acttgccctgt caaatctatc aactgttgag    1320
aaagtaatag tgtaaactct tgtgccaacg aaacctctgc cagtgttggtg tctctttacc    1380
tcattcttgt atttggtcct gtcaagattg tagcttgtct gacagaagcc acagcgnagn    1440
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cagccttgga cagcttcngc ctaccctgtg acctcagtggt cactactctct aacagtgtgt    1560
gtagactggg atgctgttca catgtggctt tggatcattt ctaatgtgac ggaattttat    1620
ttgtctcttg acagctttgt agaaatgcaa tttttatagt aaagacattg ttcatttgga    1680
agtcaatacg ttataaaatt gg                                             1702

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<210> 3

<211> 429

<212> DNA

<213> Psammomys Obesus

<220>

<221> misc_feature

<222> (1)..(429)

<223> "n" is unknown nucleotide

<400> 3

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agcgtggctg cggccgaggt acataaaatg gctaacttat agagatcaaa ggttattttg      60
gtttgttggt tcaactgttt aactgttgct ttacagtctg tggcaaagca gtgcatgggt      120

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- 4 -

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tagaatgtgg cagaacaaag cagttctcac aaccactgga tgcaaagaga aggggaagaaa      180
aaaaaagaga atagggttga atatcccatt caagggcatg cctccatgta tgggttcctc      240
tnattagcca cctccctcc cgcgcacaag taaatcctaa tagcaccagg gtctggggtc      300
aatcctttac catacagcca tttgtgagaa acttggttaag ataacatata tcacactgcc      360
tgtgtatgct gaaataaatt cataaattaa taacatttca aaaaaaacct gcccgggcgg      420
ccgctcgaa                                         429

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<210> 4

<211> 332

<212> DNA

<213> Psammomys Obesus

<220>

<221> misc_feature

<222> (1)..(332)

<223> "n" is unknown nucleotide

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<400> 4
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acaggaaaaat tcttgtttga cctgaaatga gagcacanag gcatgaatgt ggaggtgcca      180
gcttgccctaa tgaatgaggg aacagccctt tatgtaggtc agccgcttcc cttcccctgg      240
gctgccgtgc tttcttccca aagtcatcca tttctgataa tgatgtgaat tgtctgttag      300
ctatcaagta cctgcccggg cggccgctcg aa                                         332

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<210> 5

<211> 156

<212> DNA

<213> Psammomys Obesus

- 5 -

<400> 5
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 gagaagcgtc cagtcccaaa gccacaggaa ggccttttac ctgctccagc cctcggccat 120
 ggagtacctg cccgggcggc cgcctcgaaa gccgaa 156

<210> 6

<211> 447

<212> DNA

<213> Psammomys Obesus

<400> 6
 agactgcccg tgatccatga gcttaggac aggcataaac tgtgttttat ctgaggtgga 60
 ttctgatttc atctttgtca cagaagcaaa ttcttttggc aaagacactg ttttggcatg 120
 tatttcacca gaccttcctg ccttagtttc ttcttttggg tcagggagtg attgtttttc 180
 actgcttttt gtccacaatg acttaatggc ttgataaatt tgttggcttg tatcatatgt 240
 gtttctccca gttatctttg caattattac taactgagct gggtagcaaa cagctgctcc 300
 taatgtggcc atccctagag gataagtaat cttctgaaac ctagaacctc ttcttgctga 360
 cagcaaacct gccagtcctg aagctgtgat cactcctatt ttgggcagaa aatcttgagg 420
 agggttcttc agatagatat atgtatc 447

<210> 7

<211> 389

<212> DNA

<213> Psammomys Obesus

<400> 7
 ccggaattcc gggatatcgt cgacccacgc gtccggtggc caggccggcc ttgttggggc 60
 tgctgactcc aggtctattc tcagcaatgg gtcacagaga ctgaactgcc accatgattg 120
 gaggcttatt catctataat cacaaggggg aggtgctcat ctcccagtc tacagagatg 180
 acatcgggag gaacgctgtg gatgccttcc gggatcaatgt gattcatgcg cggcagcagg 240
 tgcgaagccc tgtcacaaac atcgctcgca ccagcttctt ccatgttaag cggccaaca 300

- 6 -

tctggctagc agcagtcacc aagcagaatg tcaacgccgc catggtcttc gaattcctct 360
 ataagatgtg tgatgtaatg gctgcttac 389

<210> 8

<211> 781

<212> DNA

<213> Psammomys Obesus

<400> 8
 gtcacacac ctgtgggaaa taccttacac attactgttc gtgagtagct ctgagacatc 60
 acagtggcct ggtctgcagt tggtgctcta aataattcgt ttagagtgtt tttctcgttt 120
 atgtctgcgt aatgactaaa atagtgcgt caggcccagt ggcacagctg tactcccagc 180
 tcttcagggg gctgtggccg gaggactgct agtttgaggc cagccctgca gtaaagtagt 240
 taccaacagt gagactaaat aaaaaaagtt cagagcacia acgaatactt gaagcaaaag 300
 agtctttcat tttctttctc tgactgaaaa aaacaagcac tttccggaag ccaagcactt 360
 ttcattgtag caaggatgag ttatttacgt tttaggaaat tttatcatgg attagtctga 420
 taatttaa at tctggccagt ctgttttcat cttttttotag gttttacagt atttccatca 480
 tacctatgta aaaggagaat tatatacttg tatcatattg gtgttgataa tgtatattca 540
 gataataata ttttgtagt gtctttatta tctcaaaagg agttctaaaa gtaaatactg 600
 gaagcatata ctttttagac attaatatt ttataatgaa acaactggca gtaagacatt 660
 agtgggta at atagtctatt tggtccagt actgtaaagc ttgtctcata gttctgtctg 720
 ctcatagag aacgtattgt gaaattacct tctgtgcatg atatatctgt gcaattgcag 780
 t 781

<210> 9

<211> 1357

<212> DNA

<213> Psammomys Obesus

<400> 9
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- 7 -

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atgatgctaa taactttctt atagaccatt tagaccatac agttccagac cacaacttcc      120
tgtttccaga atttgaaatt gtaacagaaa cagaagatga gattttgcct gaggctgtgg      180
aaatggaaga ttattctgac attgtaggaa gcatgggtaa ggagtcggtc catcaatctg      240
acagttcagg gaagacaggc accatcagta tgtgtctgtg gtgaggtaga gaatatcatg      300
gtagaagact gcagatcaaa acagttaact gctgaatata tgacaagggt cctttgtaat      360
ttagtctttt agttttactt ttagatacat gctagcttat tttctcggga gctcatgctt      420
tagggctgtg tctgtggtga ccaacacggg tgctgatcat aaatccagca ttcaccctgc      480
cataggttgc ttatgcatgt gctcactcaa acactctttg catcgtgctt ccagtaaaga      540
aactgaagtt ctaggtatcc tgtgtttgaa caaagaactt aggttcagat ctgacactac      600
agtgtgaact ataatcaggt ttgtaaaatc gtaatcagat tctcaagttt agtcgtttgt      660
ttgccacaag cattaaacaa cgcgtgtgag aattgtttcg tggctcagct catgcttgct      720
aacagaaata cacaacagga agaatggtac cacatagtca ggggtctggt cgaaggaggg      780
agtgacagaga gcgctcagct atgtaaagtg tcttgtgact ggtaaaagtt aaggagaaag      840
gctggagaga tggtcagaag tcacaagcac ttgctgttct tgtagacgac ccaggtttgg      900
tccctaaaac ctgcacggca atttgtaact ctagttccag gtgatccagc gccctcctct      960
ggccttgaag tacacataca tataaacaaa acattcaaaa acaaacaaag aaacaaacaa    1020
ataggaatac atacagcgta ggagctacct ggatagaact taaatgtgtc tattcatgtg    1080
tgtactgtaa aaaaaactga aaaaatcagt gagcatgttt tttctttcat ttgagagag     1140
gttotaatga aggccaagct ggctttgaac ttgtcctcct gcctccactt cctgaataca    1200
gatattacat ctttttacat ctgtctgctg ttatcttaat gagtaaactt atatataggt    1260
ctaggaaaat agtacagagt tacaaaacaa tataggctctg aacttttatt ggaagatgcc    1320
agcagctcat gagtacattt atctacaaca aagattt                                1357

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<210> 10

<211> 1314

<212> DNA

<213> Psammomys Obesus

<400> 10

- 8 -

```

ggctagaaaa ctacaagaga aaaattcaca tgaaaaacca aaatgaagaa aaggctgctg      60
agcagtttctg gatgcgactg aaaaacaagc aagatgaaat gaggcttgaa ggagacctga    120
gaagaagcca gcgtgcttgc cagcagcttg atgccagaa gaatattcag gttcccagag      180
aggtatggta ctggataagg cctgaagaag aactgaaga agaggaagtg gaggaggaac      240
aggatgaaga tgaatacacg agtgaagatt tgagtgtgct ggaaaaactg cagatcctca      300
caggctactt acgagaagaa catctgtatt gcatttggtg tgggacagcc tatgaagata      360
aagaagactt atcttccaat tgcccaggac caacctctgc tactacagtg ctcagttaga      420
atgaagccag aactggggta gctacagccg tctaactatg aggacatcag gaagcacttc      480
ctgagtggag gacgttctac agaaggatga ctagtctctc aagcaaatgt tgagagaaca      540
gaaaacacag ggagtatgcc acagagtaaa agtcaaccaa atgaaacctt ggatcctcct      600
gtttataaac agctatatac aaaagacagt tttgagaata taaaattgaa tccagactaa      660
ttatatgata attatatattc tgtttgtctg agtagcagtg atgtgtgatt ttgttaatat      720
ttcaaaatac ttgtccatat aagtcaactt ttaagtattt gcagctgaaa cactacaatg      780
ctaagagtaa ctttaaaatt ttccagccaa agaaacaaaa aggaaggggt aggtgtcaca      840
gcaaaggtaa aatattctct gttaaagctg cacaatggca catacaatct cattattctt      900
gtatacgttt gaagacaaaa aaatatatgt aataattaat cttgaatgaa aatattttgt      960
cttaaaaaaa tgttaatgtg ccagagaacc tcaagttatg gtgaacattc aagtggggat    1020
gcatgttgta agtctttgcc tattgagcct gcagatgtgt ttttaataga aatgatatat    1080
ttggtctgtg ataaaaattt cttaggtctg tttctattga ttcaactagt tgtttgtttg    1140
tttgtttgtt tgtttgtttg tttcaaaact gtacctgaaa ttagcaattg aggtcctgct    1200
ctgccccact gttactctga ttaagaagat acttgttatt tcctggtttt tggagacaga    1260
cgatatatcc tcagaagtaa ataaaagatg ctaagagata aaaaaaaaaa aaaa          1314

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<210> 11

<211> 319

<212> DNA

<213> Psammomys Obesus

<400> 11

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caccgcccgc cgtcacgtcg gcggagggct gcggggcgcg tgcgattgag ctgctggagt      60

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- 9 -

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tctcaagatg aagttttcat tggcgatctc cttttttatt ttaatgtcct tgtggtttga      120
agaagcttgt tctaaagaaa agtctttccaa gaaaggggaag gggaaaaaga agcagtattt      180
gtgcccacatc cagcagtcac cagaggacct ggcgcgtgtg cccccaact ccaccagtaa      240
tatcctgaac aggctgctgg tcagttatga cccaggatc agaccaaatt tcaaaggtat      300
tcctgtcgat gtagtagtc                                     319

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<210> 12

<211> 1262

<212> DNA

<213> Psammomys Obesus

<220>

<221> misc_feature

<222> (1)..(1262)

<223> "n" is unknown nucleotide

<400> 12

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aaactctgtc tcaaaacaaa acaaagtaac aaagggatag gccagtctt ctgagaagtt      60
agaggcaaag tgcttgcttg agcctaattgc tcttccaca gcgctcctca gcccaggtcc      120
tctcctctcc tgcaatcaag aggatattgc tttagttgac atgggccttt ccacgcatct      180
gctgaggtga ttttccaggt aactacaggg gtgaaggcta actcaacaca agccaagaaa      240
tacagaatct agatatacct ggtcttacct agatgggaga ccagcacctg ccaatagcag      300
ggcagccagc cgcccagatc cttataggtc taggaacact ggatgacagc tggatgaacat      360
gggctggagt gactgtgacc ctttcaaggg aaagcctcag ctctttttac ctgttaagga      420
atgatggaga tgcagacagt aggagagtgg tgtgggagaa atccaaagtg gcaatttccc      480
aaacactttt taaaataaat cttgtgtagg atgacatagg gctttgattg tggctcagtg      540
gtaccatgct tgtcttgagc actttaatgt gacaagtctg agggccggt ctatcactgg      600
aactgcaaaa accaagaaac aactgaaatg ataaagcagt tcagagctgg gaagtttata      660
atttctttct tcttatacct tttccccaat gtggaaaatg cttaattagt tgaagggccc      720

```

- 10 -

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cggaacagtc ctaagagcct gggaaacact tatttgcaag atgggtgcat tctggtttcc 780
ctaaaaccac aactcaaaag gaaggttgtg gggacagatg agtcatgctg cctcagacta 840
gtgggtgaaa gaggaagaca gtgtcctgcc tgtggcctca tgccagcaga acacctgaga 900
gtctgaggga ggttgtgtga ccttgccacc aaatggtata cagccgagca ggcgaagana 960
gggtgacaga gtgggcagcc ttctcttcag caagatgtaa ggaacaatgc cagttgctca 1020
tactaacgag aagcagcccc ttgcccagaa ggttctcagt acgccctccc tccttacatt 1080
cactttgtcc ctttcagaga gccaggtcac caciaaggcc acctggcctg cccactcact 1140
tctgccaaaa tgttgcatgc cagcgtggaa gacactgcac aaatcccagt gtgtatttac 1200
ttagtgagaca cagatacctt taaaataaaa taaattcatt aatgaaaaaa aaaaaaaaaa 1260
aa 1262

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<210> 13

<211> 364

<212> DNA

<213> Psammomys Obesus

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<400> 13
gctgcttttag ccaaagccat cgaaaagaac gtgttatttt cacaccttga tgacaatgag 60
agaagtgaca tttttgatgc tatgtttcca gtctccttta ttgctggaga gacagttatt 120
cagcaagggtg atgaagggga taacttctat gtgattgata aaggagaaat ggatgtctat 180
gtcaataatg aatgggcaac cagcgttggg gaaggaggga gcttcggaga gttggctttg 240
atztatggaa cacctagagc agccactgtc aaagcaaaga caaatgtgaa actgtggggc 300
atcgaccgag acagctaccg aagaatcctc atgggaagca ctctgagaaa gaggaagatg 360
tatg 364

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<210> 14

<211> 390

<212> DNA

<213> Psammomys Obesus

- 11 -

<400> 14
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 caggctggct ttgacctcac agagatctgc ttgttgacc ctcccccaag tgctggaatt 120
 acaggcgtgc gccaccatac ccagctctga tatctcttac atgacaaaaa tcaagtcact 180
 attaataaaa atgatctgct cattatagat gggaggctta acaaataagt gatacatgct 240
 aatttctgcc agtgtctatt gcttaattgt taattgtgag cagattactg aatgcctcgt 300
 ctattttcta ctttttattt tacaataact ctttgagtaa gttgaagttt aattgtgtag 360
 caaatttcta tcagagaaca atttaaagtg 390

<210> 15

<211> 582

<212> DNA

<213> Psammomys Obesus

<400> 15
 ctatgacatg atgccagatt acaggcagat cccatgtaac cagaaggaca atgtgtcttc 60
 taaaaaggga aggtgttact ggagcttttc tttcctctgc acagcatagt atcaaagtat 120
 gccattaatg aagattttatt ccattactgc tataaatttt tagtatagga agaaaacttt 180
 atcacgatca tgggccagtt agcctgatgt attcaagaac aaacaagaga ccctgtctca 240
 agttaggaat gaggacaagt gcctgaagggt gccctccaac ctccacagtt gtccgaagca 300
 cacatccgtg atcatgcaca catcagcacg cgtacaaaat tacacttgag gcttttagtat 360
 catgtgttga tcattttcaa ccatcagagg caaacactga agtggtattt tctgtctcct 420
 gcttgccagt atctacattt tccctcacat tctagggttaa aaaatgggtc ttttataaca 480
 tgagcaattt gtgatgttta ttataagtaa atgttgatgt cagtgttaga attaaaatta 540
 cttgtagtga taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 582

<210> 16

<211> 341

<212> DNA

<213> Psammomys Obesus

- 12 -

<400> 16
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tcacggggag aaaaaaaaaa atgggaaggt gagctgctat gactgagacc cctgaacttc 120
ccactcacac tctctgcaga accccacaaa acgacacaga aactatgtg gttgttctat 180
ggcttttggt ttttcgaggt tctttcaaat atcctttggc gattgaagct taaattccat 240
ttgattggct tcaccgtctg taaatactta gctattagct gtaagcacta cacgtagatg 300
acttaacgac gggcaggtcc cagcgatcat agctttatga c 341

<210> 17

<211> 22

<212> DNA

<213> Psammomys Obesus

<400> 17
gcaaagacct gtatgccaac ac 22

<210> 18

<211> 23

<212> DNA

<213> Psammomys Obesus

<400> 18
gccagagcag tgatctcttt ctg 23

<210> 19

<211> 25

<212> DNA

<213> Psammomys Obesus

<400> 19
tccggtccac aatgcctggg tacat 25

- 13 -

<210> 20

<211> 23

<212> DNA

<213> Psammomys Obesus

<400> 20

cacccactag catttctgtg atg

23

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<400> 21

cattagcacc aaggagtcaa ggt

23

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<213> Psammomys Obesus

<400> 22

ctaaccatgc ttcccctcca t

21

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<213> Psammomys Obesus

<400> 23

caccctcatt ccacaaatgc tat

23

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<210> 24

<211> 23

<212> DNA

<213> Psammomys Obesus

<400> 24

gttgctttac agtctgtggc aaa

23

<210> 25

<211> 21

<212> DNA

<213> Psammomys Obesus

<400> 25

tgcatccagt ggttgtgaga a

21

<210> 26

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<212> DNA

<213> Psammomys Obesus

<400> 26

gaggaacagc cctttatgta ggt

23

<210> 27

<211> 23

<212> DNA

<213> Psammomys Obesus

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gaaatggatg actttgggaa gaa

23

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<210> 28

<211> 22

<212> DNA

<213> Psammomys Obesus

<400> 28

aggcttacgg tctggacaac ag

22

<210> 29

<211> 22

<212> DNA

<213> Psammomys Obesus

<400> 29

cgctttgccg aatacctcta aa

22

<210> 30

<211> 30

<212> DNA

<213> Psammomys Obesus

<400> 30

aagtaatctt ctgaaaccta gaacctcttc

30

<210> 31

<211> 23

<212> DNA

<213> Psammomys Obesus

<400> 31

ctgcccacaaa taggagtgat cac

23

- 16 -

<210> 32

<211> 20

<212> DNA

<213> Psammomys Obesus

<400> 32

ccgggtcaat gtgattcatg

20

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